



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Tungsten, powder, -100 Mesh**

PRODUCT NUMBER: 3724

CAS NUMBER: 7440-33-7

SYNONYMS: Wolfram

### MANUFACTURER:

ProChem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

PHONE: 815-398-1788  
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Warning**

### Hazard Statements

H228	Flammable solid.
------	------------------

### Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P264	Wash skin thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P362	Take off contaminated clothing and wash before reuse.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

### HMS CLASSIFICATION:

Health: 2      Fire: 0      Reactivity Hazard: 0

### NFPA RATING:

Health: 2      Flammability: 0      Reactivity Hazard: 0

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**EYE CONTACT:** The dust causes slight to mild irritation of the eyes.

**SKIN CONTACT:** The dust causes slight to mild irritation of the skin.

**INHALATION:** Irritating to the nose, mucous membranes, and respiratory tract.

**INGESTION:** No specific information is available on health effects of prolonged or repeated exposure.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: W

Molecular Weight: 183.85

CHEMICAL NAME	CAS#	%
Tungsten	7440-33-7	100

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** In case of eye contact, rinse with plenty of water and seek medical attention if necessary.

**SKIN EXPOSURE:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.

**INHALATION:** Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

**INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not available

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Special powder for metal fires – do NOT use water.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Tungsten Oxides

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust. Remove all sources of ignition.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts and aerosols. Protect against electrostatic charge.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Keep away from incompatible materials.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS

Component	Exposure Limits	Basis	Entity
Tungsten	3 mg/m <sup>3</sup>	TLV	ACGIH
	10 mg/m <sup>3</sup>	STEL	NIOSH
	5 mg/m <sup>3</sup>	TWA	NIOSH

**EYE PROTECTION:** Wear chemical safety glasses or goggles.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, apron, or lab coat.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator

**ADDITIONAL PROTECTION:** Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** Light gray powder

**ODOR:** None

**MOLECULAR WEIGHT:** 183.85

**BOILING POINT:** 5660°C

**MELTING POINT:** 3410°C

**SPECIFIC GRAVITY:** 19.3

**VAPOR DENSITY:** No data available

**SOLUBILITY IN WATER:** Insoluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Heat, flames, and sparks. Extremes of temperature and direct sunlight.

**INCOMPATIBILITY:** Strong oxidizing agents and halogens

**DECOMPOSITION PRODUCTS:** Tungsten oxides

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – Rat – male and female - > 2,000 mg/kg. LC50 Inhalation – Rat – male and female – 4h - > 5.4 mg/l.

LD50 Dermal – Rat – male and female - > 2,000 mg/kg.

**CARCINOGENIC EFFECTS:** No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.

**MUTAGENIC EFFECTS:** Not available

**TETRAOGENIC EFFECTS:** Developmental abnormalities: Musculoskeletal system

**REPRODUCTIVE EFFECTS:** Post-implantation mortality.

**RTECS:** YO7175000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

Toxicity to fish static test LC50 - Danio rerio (zebra fish) - > 181 mg/l - 96 h.

Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - > 163 mg/l - 48 h.

Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata - 52.9 mg/l - 72 h.

Toxicity to bacteria static test EC50 - activated sludge - > 1,000 mg/l - 30 min.

Toxicity to fish(Chronic toxicity) LC50 - Oncorhynchus mykiss (rainbow trout) - 15.61 mg/l - 28 d.

Toxicity to daphnia and other aquatic nvertebrates (Chronic toxicity)static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 21 d.

## **SECTION 13 DISPOSAL CONSIDERATIONS**

Dispose of in according to local, state, and federal regulations.

## **SECTION 14 TRANSPORTATION DATA**

UN3089

Metal powders, flammable, n.o.s.

(Tungsten)

CLASS 4.1

PG III

Marine Pollutant: No

## **SECTION 15 REGULATORY INFORMATION**

**TSCA:** Listed in the TSCA inventory

**SARA 302/304:** Not Listed

**SARA 311/312:** Fire Hazard

**SARA (TITLE 313):** Not listed

**CALIFORNIA PROP. 65:** Not Listed

**MASSACHUSETTS RIGHT TO KNOW:** Tungsten

**PENNSYLVANIA RIGHT TO KNOW:** Tungsten

**WHMIS CANADA:** Class B-4: Flammable solid

## **SECTION 16 OTHER INFORMATION**

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

**DATE REVISED:** 04/26

**SDS DEPT.**